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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,170	06/18/2002	Darren Bisaro	201-1294	8861
22844 7:	590 03/30/2004		EXAMI	INER .
FORD GLOBAL TECHNOLOGIES, LLC. SUITE 600 - PARKLANE TOWERS EAST		VANAMAN, FRANK BENNETT		
ONE PARKLA		LASI	ART UNIT	PAPER NUMBER
DEARBORN,	MI 48126		3618	

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	10/064,170	BISARO ET AL.				
Office Action Summary	Examiner	Art Unit				
\$	Frank Vanaman	3618				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of the specified above.	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 Ja	anuary 2004.	•				
2a) This action is FINAL. 2b) ☐ This	action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 14-18 is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-13,19 and 20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>18 June 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the	<del>.</del> , .					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati prity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	_					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4)					
<ul> <li>2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 2.</li> </ul>		Patent Application (PTO-152)				

Application/Control Number: 10/064,170

Art Unit: 3618

### **Election/Restrictions**

1. Applicant's election of Invention I in Paper No. 4 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

An office action on claims 1-13, 19 and 20 follows.

# **Drawings**

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the controller controlling the actuation of a mechanical or electrical switch (claims 4, 5) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

## **Claim Objections**

3. Claim 1 is objected to because of the following informalities: at claim 1, line 4, it appears that --assembly-- should be inserted after "powertrain" for consistency with claim 1, line 1. Appropriate correction is required.

Application/Control Number: 10/064,170

Art Unit: 3618

# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 1-4, 6, 8,19 and 20 are rejected under 35 U.S.C. 102(e) as being 5. anticipated by Muramatsu et al. (US 6,491,290, US filed 6/7/01, foreign 7/14/00). Muramatsu et al. teach an engine mount (10) for connecting an engine powertrain portion to a remaining vehicle portion, the mount operable in idle and running modes, including at least one sensor which delivers one of engine speed, vehicle running speed, shift lever position, intake air temperature or other parameters (see col. 13, lines 41-55), which controls the operation of a three way vacuum solenoid valve (80, col. 13, lines 20-29), having vacuum lines to the mount (line 78) and manifold (col. 12, lines 51-53), the valve serving as an electropneumatic switch, (col. 13, line 25), under the influence of a controller (82), the system controlled to operate in ether a running mode or an idle mode (col. 13, line 56 through col. 14, line 5; col. 14, lines 22-35) based on the controller performing a comparison with a signal representative of such a state (col. 13, lines 48-55), and wherein when the signal shifts a minimum of below a value associated with, for example a running state, to above such value, the estimation of the state would change from one mode to the other. As regards claim 20, in view of the provision of sensing a shift position (see col. 13, lines 41-55), it is deemed inherent that the sensing of the shift lever in a neutral or park position would constitute a likelihood of the vehicle and engine remaining in an idle mode, to the breadth claimed.

Application/Control Number: 10/064,170

Art Unit: 3618

# Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 5, 7 and 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muramatsu et al. (cited above). The reference to Muramatsu is discussed above. As regards claim 5, the reference fails to teach the provision of an electrical switch actuated by the controller. Relay elements are very old and well known, and it is well known to use such switching devices, for example when the output of a control cannot source the quantity of current to directly drive and actuator, and as such, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide an electrical switch operated by the controller to allow a high current actuator to be controlled.

As regards claim 7, the reference to Muramatsu et al. fails to teach the threshold as being based on an engine torque rate. The measurement of an engine load as an indicator of engine output and performance is well known (e.g., torque sensors) and as such, it would have been obvious to one of ordinary skill in the art at the time of the invention to measure an engine output torque to determine the mode for the purpose of making the mode determination independent of engine speed. Further, in view of Muramatsu et al. teaching other non-speed-based parameters as measurable to determine idle or driving mode (col. 13, lines 46-48) it appears that Muramatsu et al. anticipate the concept of making a non-speed-based determination.

As regards claim 9, the reference to Muramatsu et al. fail to teach a particular rate of change of engine speed as indicative of a mode change, in view of the well known use of rate of change of variables (e.g., determining acceleration from speed or velocity data), it would have been obvious to one of ordinary skill in the art at the time of

Art Unit: 3618

the invention to determine a rate of change of engine speed for the purpose of providing finer resolution of the control, particularly in high-rate of change regions.

As regards claims 10 and 11, the provision of a time delay is very old and well known in control systems for reducing jitter in regions around a threshold for the purpose of reducing oscillations of the system, and as such, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a time delay in the controller taught by Muramatsu et al. for the purpose of insuring the mode-switching does not oscillate uncontrollably in the region of transition between measured idle and running modes.

As regards claims 12 and 13, while Muramatsu et al. teach measuring engine speed, no particular means associated with the engine is set forth. In that both crank shafts and cam shafts on engines rotate at a speed which may be easily related to the engine speed itself, it is not deemed at all beyond the skill of the ordinary practitioner to employ either a camshaft or crankshaft speed sensor in order to reliably determine the engine speed.

. Art Unit: 3618

#### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Muramatsu et al. (US 5,145,156), Yamazaki (US 5,360,080), Takano et al. (US 5,393,041), Shibata et al. (US 6,120,012), Nemoto et al. (US 6,631,895), and Oberle (US 6,386,527) teach support elements of pertinence.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Vanaman whose telephone number is 703-308-0424. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is 703-308-1113.

As of May 1, 2003, any response to this action should be mailed to:

Mail Stop \_\_\_\_\_

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450,

Or faxed to one of the following fax servers:

Regular Communications/Amendments: 703-872-9326

After Final Amendments: 703-872-9327

Customer Service Communications: 703-872-9325

F. VANAMAN

Primary Examine

Primary Examiner

Art Unit 3618